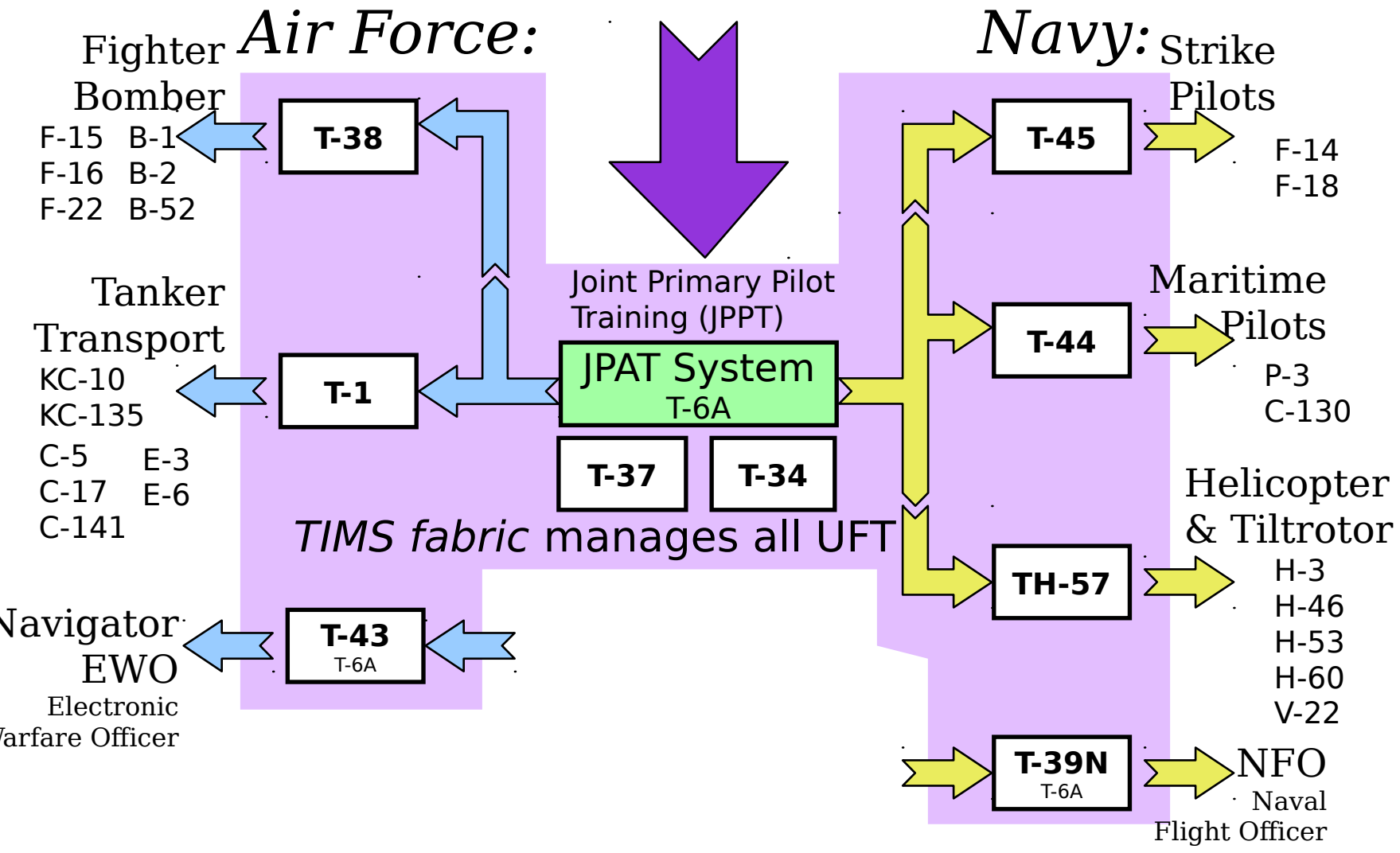
TIMS

Training Integrated Management System

LCDR Tom Cecil
JPATS GBTS DPM

- Background
- Who’s who
- TIMS and UFT
- Implementation & Status
- Challenges
- Way Ahead

TIMS Across Undergraduate Flying Training Process



TIMS is “Three Nouns”

- TIMS (network infrastructure)
  - Site surveys, connections & equipment installation (11 sites)
- TIMS (workstations)
  - Desktop workstations
  - Windows Operating System (NT 4.0/Win 2K/Win XP)
  - MS Office Automation
- TIMS (software and systems engineering)
  - Application loaded on workstation
  - Database software

SITE MISSIONIZATION IS KEY TO SUCCE

TIMS Background

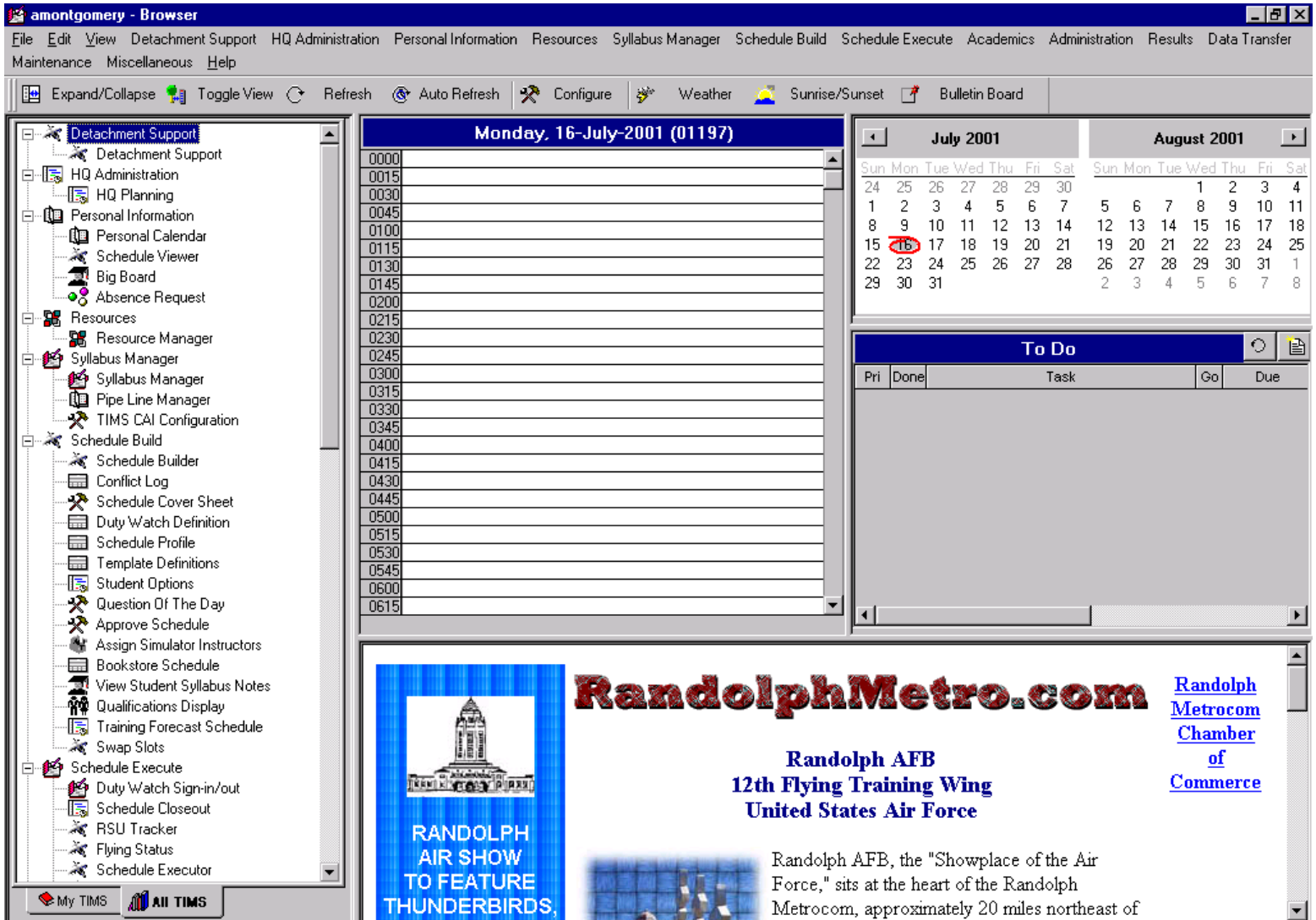
- Purchased as part of JPATS System
  - Specifically designed for UFT
- Originally envisioned as standalone system
  - Similar to TISS
  - Initial development began FY 97
- Changed to desktop application on network
  - Required redesign of network architecture

TIMS Background

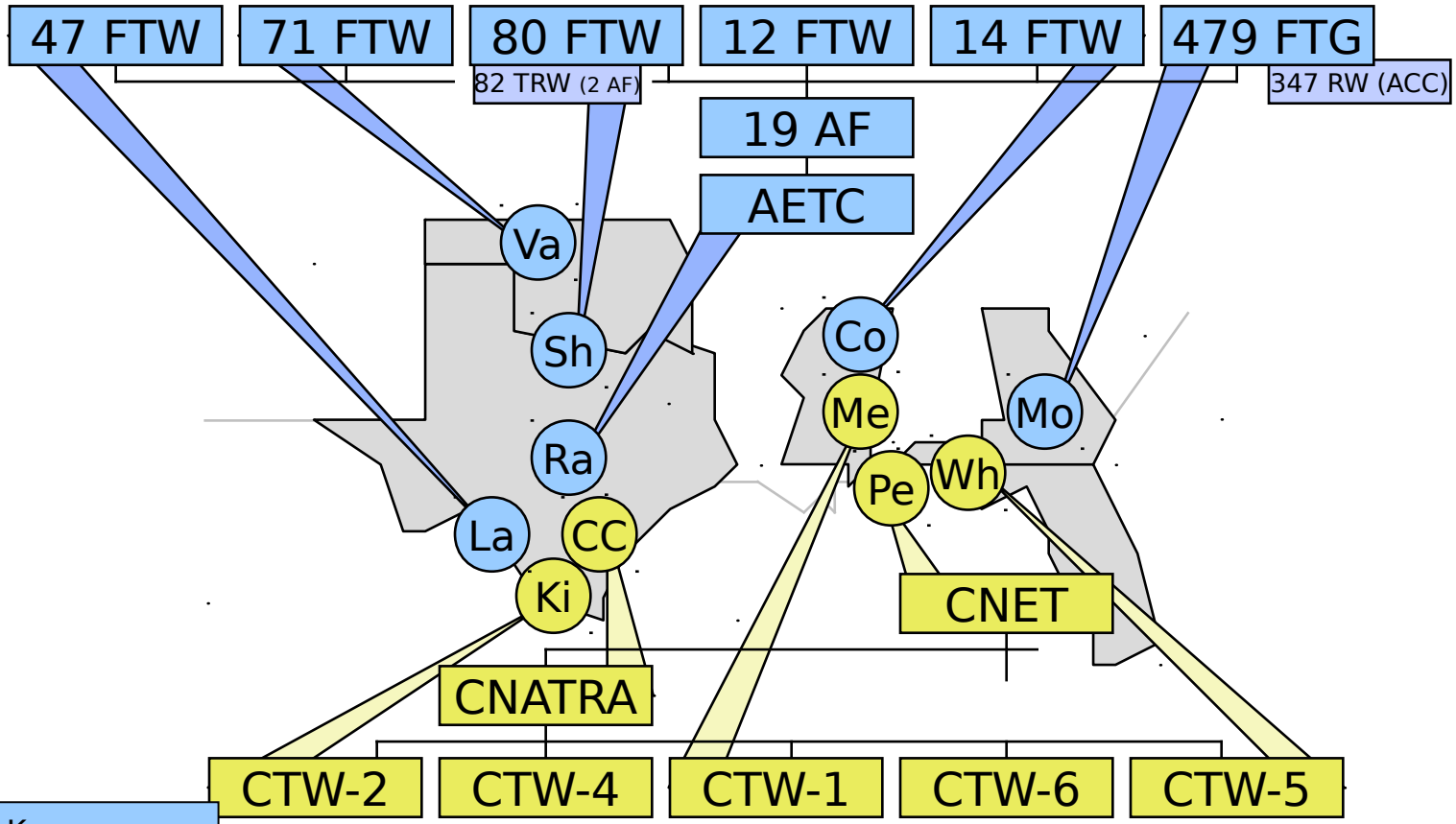
- Preliminary Design Review held Oct 98
- Critical Design Review – Jul 99
- System Level Formative Evaluation – May 01
- Heavily leverages Microsoft enterprise solutions
  - MS SQL Server database
  - MS Operating System
  - MS Office

TIMS Screen Shot

Laptops available for demo



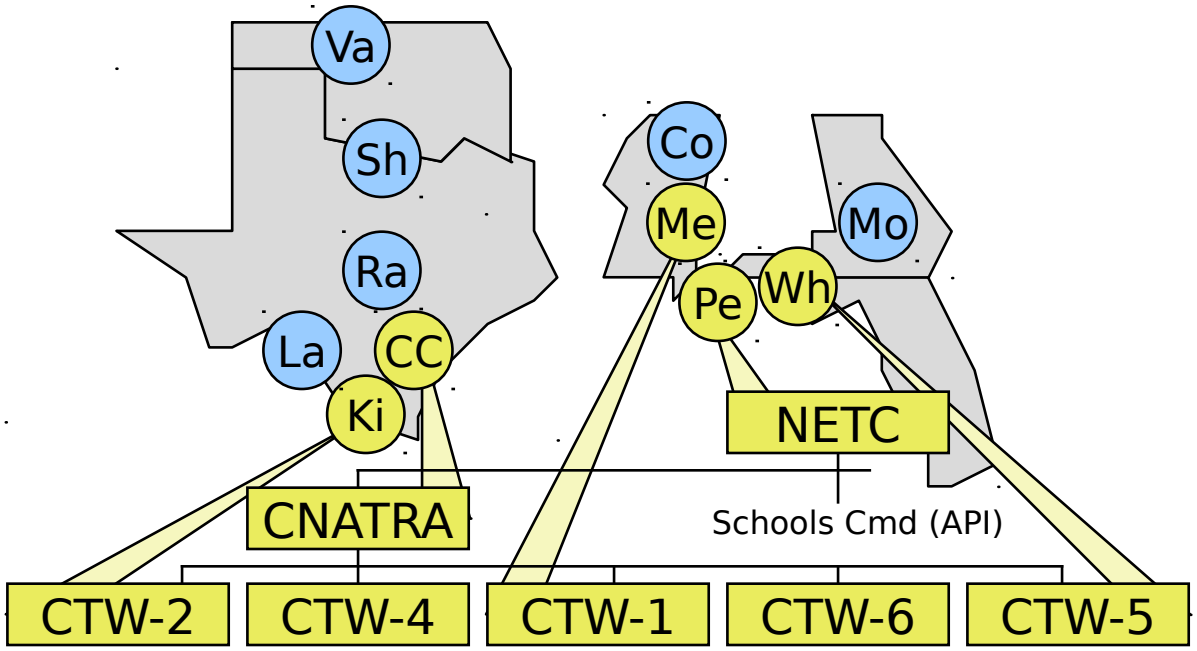
TIMS Beddown Sites and Units



AF Site Key:
La = Laughlin AFB, TX
Ra = Randolph AFB, TX
Sh = Sheppard AFB, TX
Va = Vance AFB, OK
Co = Columbus AFB, MS
Mo = Moody AFB, GA

Navy Site Key:
KI = NAS Kingsville, TX
CC = NAS Corpus Christi, TX
Me = NAS Meridian, MS
Pe = NAS Pensacola, FL
Wh = NAS Whiting Fld, FL

Navy Detail



VT-21 (T-45A)
VT-22 (T-45A)

VT-27 (T-34)
VT-28 (T-34)
VT-31 (T-44)
VT-35 (TC-12)

VT-19 (T-2)
VT-23 (T-45C)

VT-4 (T-2 AME)
VT-10 (T-34, T-6
T-39 NFO)
VT-86 (T-2, NFO-A)

VT-2 (T-34)
VT-3 (T-34)
VT-6 (T-34)
HT-8 (TH-57)
HT-18 (TH-57)

Who's Who

- Lead Service = Air Force
- Lead Program Office = Aeronautical Systems Command Training Aircraft (ASC/YT) – Wright Patterson AFB, OH
- Navy PM = PMA-273
- Command POCs
  - CNATRA N3 Staff
  - AETC/XP & DO
  - Program Office: LCDR Tom Cecil, GBTS DPM

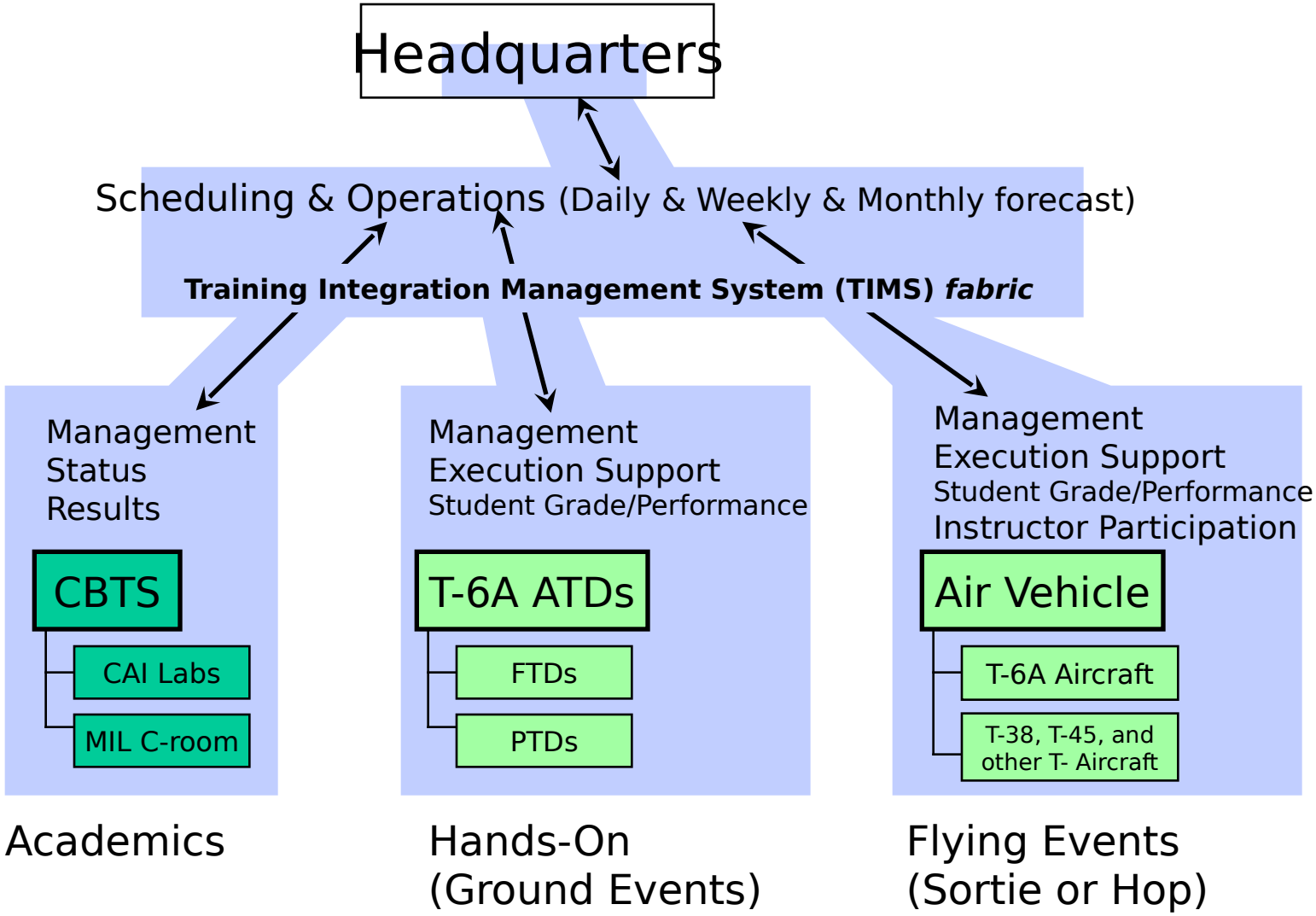
Contractors

- Raytheon Aerospace – prime contractor
- Northrup Grumman IT – TIMS subcontractor
  - Developed TIMS software
  - Supports both Navy and AF
  - Supports on site implementation
  - Continues to make S/W modifications
- Probado – CNATRA contract
  - In house S/W developer – Navy only

TIMS and UFT

- Designed to replace functionality provided by
  - TIS
  - TMS2 (NAS Corpus & NAS Pensacola)
  - STASS-FLT
- Will interface with
  - NITRAS
  - AV3M
  - AF TIMS database servers via CNATRA

TIMS Across UFT Mission



MOT&E(S)

- Multi service Operational Test & Evaluation
- TIMS in use at Moody AFB since May 02
- MOT&E(S) Conducted at Moody AFB Fall 02
  - AFOTEC/OPTEVFOR team
  - Only looked at T-6A users
  - TIMS rated unsatisfactory
    - Frequent software changes/updates at users request
    - Steep learning curve
  - Engineering builds discontinued
  - Additional on site transition support provided

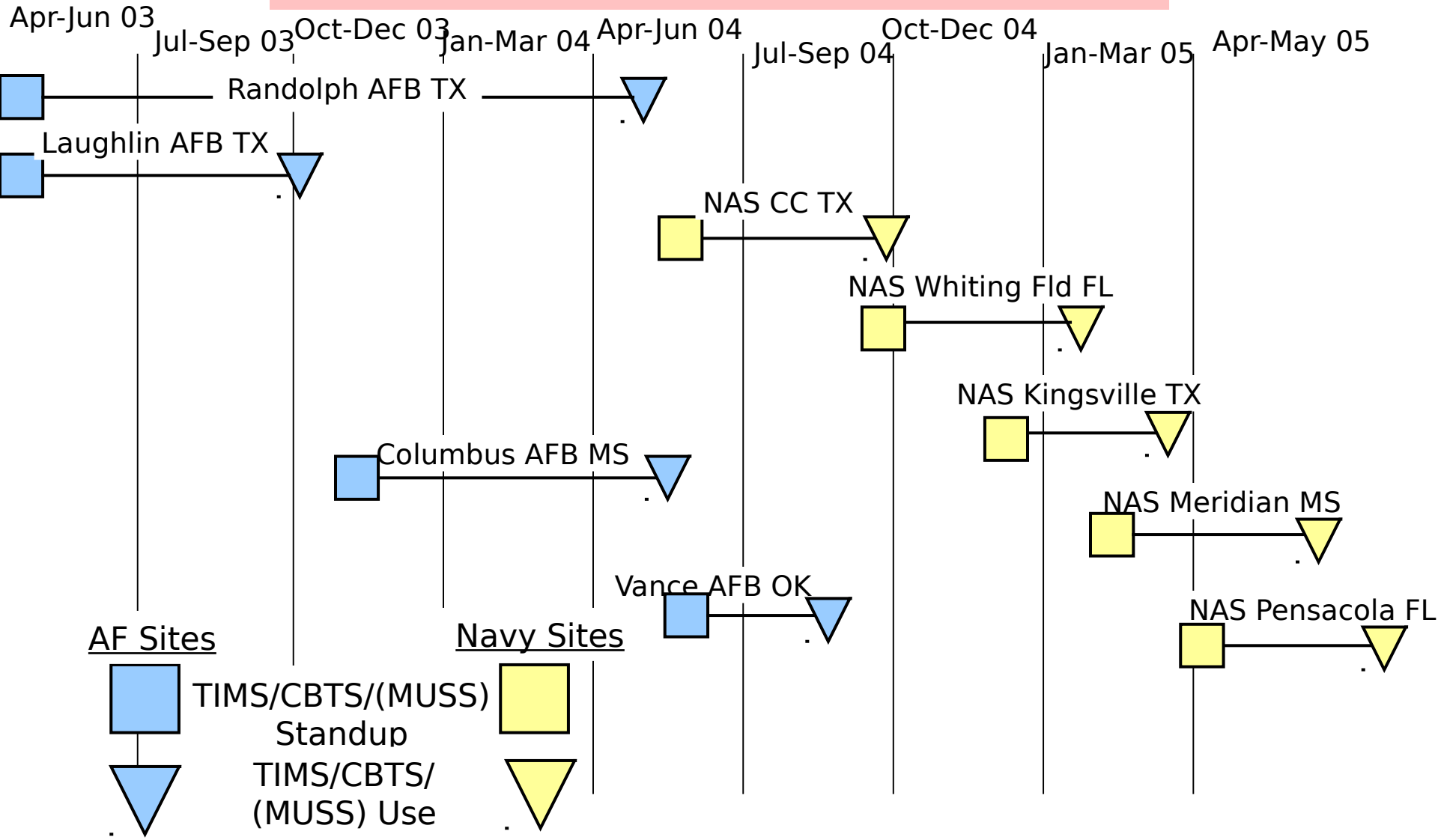
TIMS Implementation

- **Training Sites Using TIMS**
  - **Moody AFB – May 02**
  - **Laughlin AFB – May 03**
  - **Columbus AFB – Jun 03**
  - **Randolph AFB – Sep 03**
  - **Vance AFB – Apr 04**
- **TIMS not operationally used at any Navy site**
  - **Installed at CNATRA Flight Training Support Center (FTSC) – v 1.4.0**
- **Future Implementation Schedule**
  - **Sheppard AFB – June 04**
  - **NAS Corpus Christi – Summer 04**

TIMS Use

- Platforms
  - T-6
  - T-37
  - T-38
  - T-1
- Courseware
  - CBT
  - Class Tests
- Simulators
- Each site is “unique”

Schedule Overview
TIMS Standup & Use



TIMS Builds

- System Trouble Reports
  - Software bugs/changes/additional functionality
  - Over 600 open STRs
  - Prioritized by users
  - Approx 30 in each build
- Joint CONOPS
  - Changes approved by both services
  - Single common baseline

Recent TIMS Builds

Version	Date	# STRs
1.2.1	28 Oct 03	28
1.3.0	19 Nov 03	55
1.3.1	6 Jan 04	14
1.3.2	3 Feb 04	1
1.4.0	19 Mar 04	54
1.4.1	11 May 04	40
1.5.0	TBD	TBD

TIMS Challenges

- NMCI
  - TIMS will be used on NMCI workstations
  - NMCI vs. Training COI
    - Electronic Classrooms
    - Select workstations
  - TIMS v 1.2 & NMCI LADRA testing
    - Completed Nov 03
  - NMCI can’t support frequent S/W updates
  - Navy/Air Force connectivity
    - VPN between NAS CC and RAFB
    - Requires same TIMS version

TIMS Challenges

- eTIMs
  - Web based functionality
  - Reduces NMCI integration issues
  - Available via web browser
  - Selected functionalities being migrated
    - View sched
    - Snivels
    - Gradesheets
    - Yellowsheets
  - AF effort

TIMS Challenges

- Base network configuration
- Hardware
  - Servers/workstations/network
- Syllabus issues
  - Not TIMS software
  - Needs to be accurate
- Potential use of TIMS by other platforms
  - JSF
  - F-22
  - RTU/FRS

FOT&E

- Follow-on Operational Test & Evaluation
- Scheduled May 04 ~ 3 months
- TIMS portion – Laughlin AFB, TX
- Multiple platforms (T-6/T-38/T-37/T-1)

- Navy specific FOT&E
  - NAS Corpus Christi – TW4
  - Fall/Winter 04

TIMS Way Ahead

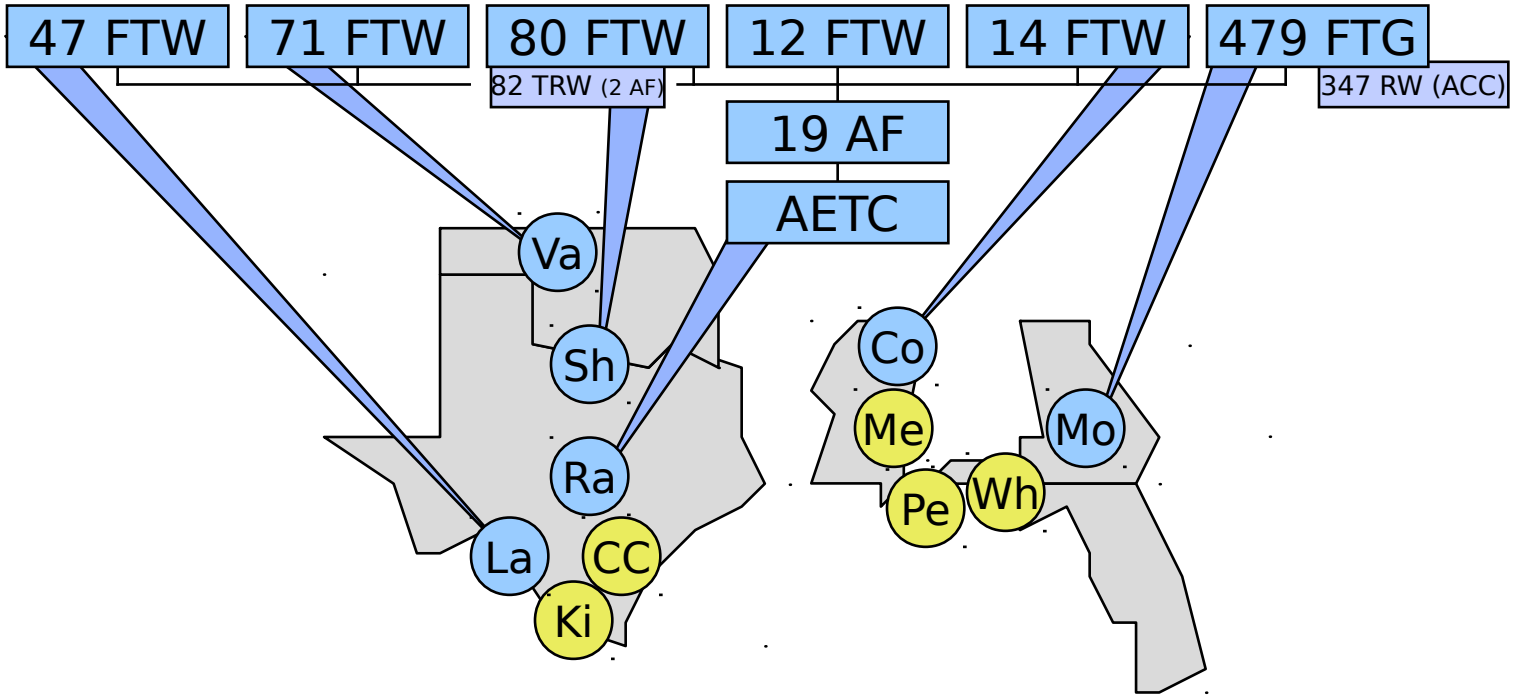
- TIMS v 1.4.1
- Legacy data loaded into TIMS
  - Student data
  - Syllabus
- Training initial CNATRA TIMS cadre – May 04
- Parallel ops at TW4
  - On site contractor support
  - Three months
- Corpus Christi users should see it July/Aug 04
- Implement throughout CNATRA
  - Assess suitability for follow on users
- No current plans or funds beyond CNATRA

Questions

Backup

Air Force Detail

47 FTW	71 FTW	80 FTW	12 FTW	14 FTW	479 FTG
84 FTS (T-37)	5 FTS (res)		99 FTS (T-1 PIT)		
85 FTS (T-37)	8 FTS (T-37)		100 FTS (res)	37 FTS (T-37)	
86 FTS (T-1)	25 FTS (T-38)	88 FTS (AT-38)	559 FTS (T-37 PIT)	41 FTS (T-37)	3 FTS (T-6)
87 FTS (T-38)	32 FTS (T-1)	89 FTS (T-37)	560 FTS (T-38 PIT)	43 FTS (res)	39 FTS (res)
96 FTS (res)	33 FTS (T-37)	90 FTS (T-38)	562 FTS (T-43 JUNT)	48 FTS (T-1)	49 FTS (T-38C)
			563 FTS (EWO)	50 FTS (T-38)	435 FTS (T-38C)



TIMS Functional Area Overview